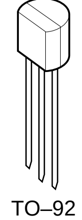
Quick Reference by Package

■ TO-92 Type Transistor



TO–92

V_{CEO} (V) / I_C (A)	~15	~30	~50	~70	~100	~150	~200	~250	~400
~20 m		2SC1674							
~30 m		2SC1675	2SA1005						
~50 m	2SA1206**					2SA988 2SA992 2SC1841 2SC1845			
~100 m			2SA733 2SA987 2SA990 2SA1151 2SC945 2SC945 (L) 2SC1840 2SC1842 2SC1843 2SC2718 AA1[ ] AN1[ ]	2SA991 2SC1844	2SA675[1)]		2SA1376 2SA1376A 2SC3478 2SC3478A	2SA1544	
~200 m	2SC2901**	2SA1409* (25 V/ 150 mA)	2SC3622* (150 mA) 2SC3622A* (150 mA)						
~500 m			2SC3615* (300 mA)	2SA953 2SC2002	2SA954 2SA1152 2SC2003 2SC2719				2SA1625
~1.0		2SA952 2SC2001 2SC3616* (25 V/ 700 mA) AB1[ ] (25 V/ 700 mA) AP1[ ] (25 V/ 700 mA)	2SB1116 2SD1616	AD1[ ] AD2[ ]*** AR1[ ] 2SB1116A (60 V) 2SD1616A (60 V) 2SD1701*** (60 V)	2SD1698 (80 V)				
~2.0		2SD1513 (16 V/2.0 A) 2SB1068 (16 V/2.0 A) AC1[ ] (20 V/2.0 A) AQ1[ ] (20 V/2.0 A)		2SD1939 (60 V/1.5 A)					
~3.0		2SB1300 (16 V/3 A) AC2[ ] (16 V/3 A) AQ2[ ] (16 V/3 A)							

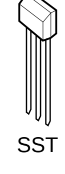
1) V_{CES} [boxed] : Darlington transistor, *: High h_{FE} transistor, **: High speed switching, ***: Contains internal zener diode

Quick Reference by Package

■ SST Type Transistor

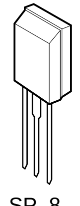
I_C (A) \ V_{CEO} (V)	~15	~20	~30	~50	~120
~20 m	2SC2786	BA3[ ] BN3[ ]	2SC2787		
~50 m	2SA1459**				2SA1174 2SC2784
~100 m				2SA1175 2SC2785 2SC3623* BA1[ ] BN1[ ] BA2[ ] BN2[ ]	
~200 m	2SC3732**	2SA1410* (150 mA)		2SA1458** (40 V) 2SC3623A* (150 mA) 2SC3731** (40 V)	
~700 m		2SB810 2SD1020	BB1[ ] (25 V) BP1[ ] (25 V)		
~1.0		2SB811 2SD1021			

*: High h_{FE} transistor, **: High speed switching



Quick Reference by Package

■ SP-8 Type Transistor


SP–8

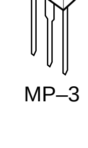
V_{CEO} (V) / I_C (A)	~16	~25	~50	~80	~140	~160	~300	~400	~600
~50 m					2SA915 2SC1940	2SA916 2SC1941			
~200 m							2SC3209 2SC4000 (250 V/ 100 mA)		
~500 m					2SA1221 2SC2958	2SA1222 2SC2959			
~700 m			2SB605 2SA1154 2SD571 2SC2721						
~1.0		2SB564 2SD471	2SA1460** 2SB734 2SC3733** 2SD774 2SD1582*	2SB984 2SB1093 2SD1312 2SD1579 2SD1697 (800 mA) 2SD1700*** (60 V/ 800 mA) 2SD1843*** (60 V)					2SA1627
~2.0	2SB733 2SD773	2SD1581*	2SD2463	2SD1779* (60 V) 2SD1780* (60 V) CE1[ ]*** (60 V) CE2[ ]* (60 V)				2SA1626	
~3.0		2SB1117			2SB1318 (100 V)				
~5.0		2SA1897							

: Darlington transistor, *: High h_{FE} transistor, **: High speed switching, ***: Internal zener diode

Quick Reference by Package

■ MP-3 Type Transistor

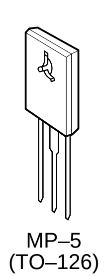
V_{CEO} (V) / $I_{C(DC)}$ (A)	~20	~40	~60	~100	~150	~300	~400	~600
~0.5						2SC2802	2SA1400 2SC3588	
~1.0			2SB963 2SD1286					2SA1413 2SC3632
~2.0	2SD1583 ○		2SD1164	2SC4338	2SB768 2SD1033 2SD1557	2SC2885 2SC2946	2SA1412 2SC3631	
~3.0		2SB962 ◎	2SD1448 2SD1584 ○ 2SB1261 ◎ 2SD1899 ◎	2SC4339				
~5.0			2SA1385 ◎ 2SC3518 ◎ 2SA1648 ◎ 2SC4332 ◎	2SA1647 ◎ 2SC4331 ◎			2SC4346	
10	2SA1615 ◎	2SA1649 ◎ 2SC4333 ◎	2SC4344 ◎					



▭ : Darlington transistor, (: Complementary pair, ○: Single High h_{FE}, ◎: Low V_{CE}(sat)

■ MP-5 (TO-126) Type Transistor

V_{CEO} (V) / $I_{C(DC)}$ (A)	~45	~60	~80	~120	~160	~300	~400	~600
~1.0						2SC2371 2SA1546 2SC4001		
~0.5						2SC2688	2SA1156 2SC2752	
~1.0		2SD1630 *	2SD414	2SD415				2SA1486 2SC3840
~2.0	2SD1695 *	2SB794 2SD985 2SD1491 *	2SB795 2SD986 2SC4341	2SC2690	2SC2690A			
~3.0	2SD794 2SB772 ◎ 2SD882 ◎	2SD794A 2SB1150 * 2SD1693 * 2SD1694 ○ 2SB1217 ◎ 2SD1818 ◎		2SB1149 2SD1692 2SC4342				
~5.0		2SB1151 ◎ 2SD1691 ◎						



▭ : Darlington transistor, (: Complementary pair, *: Internal zener diode between C-B, ◎: Low $V_{CE(sat)}$,
○: Single Hight h_{FE}

Quick Reference by Package

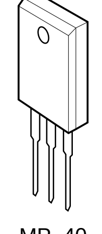
■ MP-25 (TO-220) Type Transistor

MP–25
(TO–220)

V_{CEO} (V) / $I_{C(DC)}$ (A)	~40	~60	~80	~100	~150	~300	~400
~0.5						2SC1505	
~2.0		2SD1481 * 2SD1629 *		2SA1008 2SC2331	2SB546A 2SD401A	2SA1009	2SA1009A 2SC2333
~5.0		2SA1069	2SA1069A	2SA1644 ◎ 2SB601 2SD560 2SC2517			2SC2518
~7.0	2SA1129 2SC2654	2SB707	2SB708	2SA1010 2SC2334 2SC2373 2SA1645 ◎			2SC2335
~7.0				2SA1646 ◎ 2SC4330 ◎			

▭ : Darlington transistor, ⟮ : Complementary pair, *: Internal zener diode between C-B, ◎: Low $V_{CE(sat)}$

■ MP-40 Type Transistor

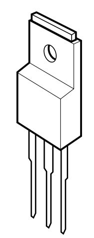


MP–40

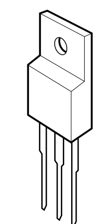
V_{CEO} (V) / $I_{C(DC)}$ (A)	~60	~100	~400
~5.0	2SD1392 * 2SC4347 *	2SD1308	
~7.0			2SC3158
~8.0		2SD1309	
~10		2SA1261 2SC3157	2SC3159

▭ : Darlington transistor, ⟮ : Complementary pair, *: Internal zener diode between C-B

Quick Reference by Package




MP–45
(MP-25 Insulated type)


MP–45F
(MP-25 Insulated type)

■ MP-45, MP-45F (TO-220 Insulated Type) Transistor

V_{CEO} (V) / Package / $I_{C(DC)}$ (A)	~60		~100		~150	~300	~400
	MP-45	MP-45F	MP-45	MP-45F	MP-45	MP-45	MP-45
~2.0			2SA1395 2SC3567		2SB1096		2SC3569
~3.0	2SB1094 2SD1585 2SD1593 ○	2SC1453 2SD2164 ○					
~5.0	2SA1394 2SC3566 2SA1441 ◎ 2SC3691 ◎ 2SC4351 * 2SD1595 *	2SA1741 ◎ 2SC4549 ◎	2SB1098 2SD1589 2SA1650 ◎ 2SC4334 ◎	2SB1430 2SD2161		2SD1592	2SC3570
~6.0			2SD1594 ○	2SD2165 ○			
~7.0	2SB1097 2SD1588 2SA1442 ◎ 2SC3692 ◎	2SA1742 ◎ 2SC4550 ◎	2SC4062 2SA1651 ◎	2SC4553			2SC3571
~8.0			2SB1099 2SD1590	2SA1833 2SD2205 2SB1431 2SD2162			
~10	2SA1443 ◎ 2SC3693 ◎	2SA1743 ◎ 2SC4551 ◎	2SA1396 2SC3568 2SA1652 ◎ 2SC4336 ◎ 2SA1720 2SB1100 2SD1591	2SB1432 2SD2163			2SC3572
~15	2SA1444 ◎ 2SC3694	2SA1744 ◎ 2SC4552 ◎	2SC4063	2SC4554			

▭ : Darlington transistor, (: Complementary pair, *: Internal zener diode between C-B, ◎: Low $V_{CE(sat)}$,
○: Single High h_{FE}

Quick Reference by Package

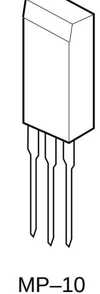
■ MP-80 Type Transistor

MP–80

V_{CEO} (V) / $I_{C(DC)}$ (A)	~100	~200	~400
~5.0	2SC2908		
~7.0		2SA1988*	
~1.0	2SB897 2SD1210		2SC2749
~15	2SC2750 2SD1296		2SC2751
~25	2SD1297		

☐: Darlington transistor, *: MP-88

■ MP-10 Type Transistor



MP–10

V_{CEO} (V) / $I_{C(DC)}$ (A)	~60	~100
2.5		2SC4814 ○
~5	⎨ 2SA1843 ◎ 2SC4815 ◎	⎨ 2SA1840 2SC4810 ⎨ 2SA1845 ◎ 2SC4817 ◎
~7	⎨ 2SA1844 ◎ 2SC4816 ◎	⎨ 2SA1846 ◎ 2SC4818 ◎ 2SC4813 ○
~8		⎨ 2SA1841 2SC4811
~10		⎨ 2SA1842 2SC4812 ⎨ 2SA1847 ◎ 2SC4819 ◎

☐: Darlington transistor, ⎨: Complementary pair, ○: Low V_{CE}(sat) High h_{FE}, ◎ : Low V_{CE}(sat)

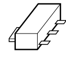
Quick Reference by Package

Mini mold
SC-59

■ Mini-Mold Transistor

V_{CEO} (V) / I_C (mA)	~15	~20	~30	~40	~50	~60	~80	~120	~200	~300
~10	2SC3663 (8 V, 5 mA)									
~20		2SC2223 2SC2758	2SK160							2SD2383
~30		2SC4568		2SA1226						
~50	2SA1424 (–12 V) 2SA1462 2SC2757 2SC2759 2SC3545 2SC3583 (10 V, 65 mA) 2SC3585 (10 V, 35 mA)	2SC4095 (35 mA)	2SC1009A					2SA811A 2SA1247 2SC1622A 2SC3115	2SC1653 (130 V) 2SC1654 (160 V)	
~100	2SC2351 (70 mA) 2SC3356 (12 V)	2SC4093 2SC4094 (65 mA) 2SC4569 (60 mA)	2SC4092 (25 V, 70 mA) FN2[ ] (–25 V)		2SA812 2SC1623 FA1[ ] FN1[ ]	FA2[ ]			2SA1330 2SC3360	
~150			2SA1411 (–25 V)		2SC3624 2SC3624A					
~200	2SC3735	2SC1621		2SA1461 2SC3734						
~300						2SB736 2SD780	2SB736A 2SD780A			
~500				2SA1464 2SC3739						
~700			2SB624 (–25 V) 2SD596 (25 V) FB1[ ] (25 V) FP1[ ] (–25 V)							
~1000			2SA1467 (–25 V)							

Quick Reference by Package



Power mini mold
SC-62

■ Power Mini-Mold Transistor

V_{CEO} (V) / I_C (A)	~20	~25	~50	~60	~80	~100	~120	~140	~300
~50 m								2SA1173 2SC2780	
~200 m	2SC2954 (18 V, 150 mA) 2SC3357 (12 V, 100 mA)								2SC3554
~300 m			2SC3617		2SB800 2SD1001				
~0.7		2SC3618	2SB799 2SD1000			2SB805 2SD1006	2SB806 2SD1007		
~1.0		2SB798 2SD999	2SA1463 2SB1115 2SC3736 2SD1615 [2SD1702]	2SB1115A 2SD1615A HD1[ ] HD2[ ] HR1[ ]	2SB804 2SD1005 [2SD1699]				
~2.0	2SB1114 2SD1614 HC1[ ] HQ1[ ]	2SD1950 2SJ179 (30 V, 1.5 A)							
~3.0	2SB1301 HC2[ ] (16 V) HQ2[ ] (–16 V)			2SB1572 2SD2403					
~5.0			2SB1571 2SD2402						

[ ]: Darlington connection

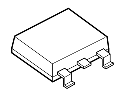


MP-2
SC-84

■ MP-2 Type Transistor

V_{CEO} (V) / I_C (A)	~20	~60	~600
~1.0			2SA1871 2SC4942
~3.0	2SB1581		
~5.0		2SB1578 2SD2425	

Quick Reference by Package


MP-3

■ MP-3 Type (SC-63) Transistor

VCEO (V) / IC (A)	~20	~30	~45	~60	~200	~300	~400	~600
~0.2						2SC2802		
~0.5							2SA1400-Z 2SC3588-Z	
~1.0				2SB963-Z 2SD1286-Z				2SA1413-Z 2SC3632-Z
~2.0	2SD1583-Z			2SD1164-Z (1.5 A)	2SB768 (150 V) 2SD1033 (150 V) 2SC2946(1)		2SA1412-Z 2SC3631-Z	
~3.0		2SB962-Z	2SD1448-Z	2SB1261-Z 2SD1584-Z 2SD1899-Z				
~5.0				2SA1385-Z 2SC3518-Z				
~10	2SA1615-Z							

☐ : Darlington connection

Small mini mold
SC-70

■ Small Mini-Mold Transistor

VCEO (V) / IC (mA)	~15	~20	~30	~40	~50	~120	~160
~20		2SC4178					
~50	2SA1610		2SC4179			2SA1612 2SC4180	2SA1609
~100					2SA1611 2SC4177 GA1[ ] GN1[ ]		
~150		2SA1613 (25 V)			2SC4181		
~200	2SC4176	2SC4175					
~500			2SB1475 (–25 V) 2SD2228 (25 V)	2SA1608 2SC4173			

■ Ultra Small Mini-Mold Transistor

VCEO (V) / IC (mA)	~50
~100	2SA1836 2SC4783

Ultra small mini mold

Quick Reference Table by Function/Application

■ Small Signal Transistor (1/2)

	TO-92	SP-8	SST	SMALL MINI MOLD	MINI MOLD	POWER MINI
FM/FM RF	2SA1005				2SA1226	
RF/MIX/CON	2SC1674		2SC2786	2SC4178	2SC2223	
FM AM/FM/AM MIX/OSC/IF	2SC1675		2SC2787	2SC4179	2SC1009A	
Audio Frequency Amplification	2SA733		2SA1175	2SA1611	2SA812	
	2SA987				(2SA812)	
	2SA988			2SA1612	2SA811A	
	2SA1409		2SA1410	2SA1613	2SA1411	
	2SC945		2SC2785	2SC4177	2SC1623	
	2SC945 Ⓛ				(2SC1623)	
	2SC1840				(2SC1623)	
	2SC1841				2SC1622A	
	2SC3622/A		2SC3623/A	2SC4181	2SC3624/A	
Low Noise Amplification	2SA990					
	2SA991					
	2SA992		2SA1174		2SA1247	
	2SC1842					
	2SC1843					
	2SC1844					
	2SC1845		2SC2784		2SC3115	
Driver Output	2SA952		2SB810		2SB624	
	2SA953				2SB736	
	2SA954				2SB736A	2SB800
	2SA1376				2SA1330	
		2SA915				2SA1173
		2SA916		2SA1609		
		2SB564	2SB811			2SB798
		2SB605				2SB799
		2SB733				
		2SB734				
	2SB1068					2SB1114
	2SB1116					2SB1115
	2SB1116A					2SB1115A
						2SB804
						2SB805
						2SB806
	2SC2001		2SD1020		2SD596	
	2SC2002				2SD780	
	2SC2003				2SD780A	2SD1001
	2SC3478				2SC3360	

Quick Reference Table by Function/Application

■ Small Signal Transistor (2/2)

	TO-92	SP-8	SST	SMALL MINI MOLD	MINI MOLD	POWER MINI
Driver Output		2SC1940			2SC1653	2SC2780
		2SC1941			2SC1654	
		2SC3209				2SC3554
	2SC3615					2SC3617
	2SC3616					2SC3618
		2SD471				2SD999
		2SD571				2SD1000
		2SD773				
		2SD774				
	2SD1513					2SD1614
	2SD1616					2SD1615
	2SD1616A					2SD1615A
						2SD1005
						2SD1006
						2SD1007
	2SD1698	2SD1697				2SD1699
	2SD1701	2SD1700				2SD1702
		2SD1581				2SD1950
Switching	2SA1206		2SA1459	2SA1610	2SA1462	
	2SA1153			2SA1608	2SA1464	
		2SA1460				2SA1463
			2SA1458		2SA1461	
	2SC2720			2SC4173	2SC3739	
	2SC2901		2SC3732	2SC4176	2SC3735	
		2SC3733				2SC3736
			2SC3731		2SC3734	

Quick Reference Table by Function/Application

Power Transistor

■ Low $V_{CE(sat)}$ Transistor

Charac-teristics V_{CEO}, $I_{C(DC)}$	SP-8	MP-2	MP-3	MP-5 (TO-126)	MP-25	MP-10	MP-45	MP-45F
16 V, 3 A		2SB1581						
20 V, 10 A	2SA1897 (5A)		2SA1615					
25 V, 3 A	2SB1117							
30 V, 3 A			2SB962	2SB772 2SD882				
30 V, 10 A			2SA1649 2SC4333					
60 V, 3A			2SB1261 2SD1899	2SB1217 2SD1818				
60 V, 5 A		2SB1578 2SD2425	2SA1385 2SC3518	2SB1151 2SD1691		2SA1843 2SC4815		
			2SA1648 2SC4332				2SA1441 2SC3691	2SA1741 2SC4549
60 V, 7 A			2SC4344			2SA1844 2SC4816	2SA1442 2SC3692	2SA1742 2SC4550
60 V, 10 A							2SA1443 2SC3693	2SA1743 2SC4551
60 V, 15 A							2SA1444 2SC3694	2SA1744 2SC4552
100 V, 5 A			2SA1647 2SC4331		2SA1644	2SA1845 2SC4817	2SA1650 2SC4334	
100 V, 7 A					2SA1645	2SA1846 2SC4818	2SA1651	
100 V, 10 A					2SA1646 2SC4330	2SA1847 2SC4819	2SA1652 2SC4336	

■ High h_{FE} Transistor

Charac-teristics V_{CEO}, $I_{C(DC)}$	SP-8	MP-3	MP-5 (TO-126)	MP-10	MP-45	MP-45F
20 V, 2 A		2SD1583				
25 V, 2 A	2SD1581					
50 V, 1 A	2SD1582					
60 V, 3 A		2SD1584	2SD1694		2SD1593	2SD2164
100 V, 2.5 A				2SC4814*		
100 V, 6 A					2SD1594	2SD2165
100 V, 7.5 A				2SC4813*	2SC4062	2SC4553*
100 V, 15 A					2SC4063	2SC4554*

*: Low VCE(sat) & High hFE

Quick Reference Table by Function/Application

■ Low Voltage, High Speed Switching Transistor

Characteristics V_{CEO}, $I_{C(DC)}$	SP-8	MP-25	MP-45	MP-80
45 V, 1 A	2SA1460 2SC3733			
60 V, 5 A		2SA1069	2SA1394 2SC3566	
100 V, 2 A		2SA1008 2SC2331	2SA1395 2SC3567	
100 V, 5 A		2SC2517		
100 V, 7 A		2SA1010 2SC2334		
100 V, 7.5A		2SC2373		
100 V, 10 A			2SA1396 2SC3568	
100 V, 15 A				2SC2750

■ High Voltage, High Speed Switching Transistor

Characteristics V_{CEO}, $I_{C(DC)}$	MP-3	MP-5 (TO-126)	MP-25 (TO-220)	MP-40	MP-45	MP-80
200 V, 2 A	2SC2885 2SC2946 2SC2946(1)					
350 V, 2 A			2SA1009			
400 V, 0.5 A	2SA1400 2SC3588	2SA1156 2SC2752				
400 V, 2 A	2SC3631		2SA1009A 2SC2333		2SC3569	
400 V, 5 A	2SC4346		2SC2518		2SC3570	
400 V, 7 A				2SC3158	2SC3571	
400 V, 10 A				2SC3159	2SC3572	2SC2749
400 V, 15 A						2SC2571
600 V, 2 A	2SA1413 2SC3632	2SA1486 2SC3840				

Quick Reference Table by Function/Application

■ Audio Frequency Amplification Transistor

Characteristics V_{CEO}, $I_{C(DC)}$	MP-3	MP-5 (TO-126)	MP-25 (TO-220)	MP-45
45 V, 3 A		2SD794		
60 V, 3 A		2SD794A	2SB1089 2SD1567	2SB1094 2SD1585
60 V, 7 A		2SB707		2SB1097 2SD1588
80 V, 0.8 A		2SD414		
80 V, 7 A			2SB708	
100 V, 0.8 A		2SD415		
150 V, 2 A	2SB768 2SD1033		2SB546A 2SD401A	2SB1096

■ High Frequency Amplification Transistor

Characteristics V_{CEO}, $I_{C(DC)}$	SP-8	MP-3	MP-5 (TO-126)	MP-25 (TO-220)	MP-88
40 V, 7 A				2SA1129 2SC2654	
120 V, 1.2 A			2SC2690		
160 V. 1.2 A			2SC2690A		
200 V, 7 A					2SA1988
250 V, 0.1 A	2SC4000		2SA1546 2SC4001		
300 V, 0.1 A			2SC2371		
300 V, 0.2 A	2SC3209	2SC2802	2SC2688	2SC1505	

Quick Reference Table by Function/Application

■ Darlington Transistor

Charac- teristics V_{CEO}, $I_{C(DC)}$	SP-8	MP-3	MP-5 (TO-126)	MP-25 (TO-220)	MP-10	MP-40	MP-45	MP-45F	MP-80
31 V, 2 A	2SD2463*		2SD1695*						
60 V, 0.8 A	2SD1700*								
60 V, 1 A	2SD1843	2SB963 2SD1286	2SD1630*						
60 V, 1.5 A		2SD1164	2SB794 2SD985 2SD1491*						
60 V, 3 A			2SB1150* 2SD1693*						
60 V, 5 A				2SD1564*		2SD1392* 2SC4347◎*	2SD1595* 2SC4351◎		
80 V, 0.8 A	2SD1697								
80 V, 1.5 A	2SB1093 2SD1579		2SB795 2SD986						
80 V, 2 A		2SC4338◎	2SC4341						
100 V, 3 A		2SC4339	2SB1149 2SD1692 2SC4342◎						
100 V, 5 A				2SB601 2SD560 2SB1087 2SD1565	2SA1840 2SC4810	2SA1715◎ 2SD1308	2SB1098◎ 2SD1589◎	2SB1430 2SD2161	
100 V, 8 A					2SA1841 2SC4811	2SA1716◎ 2SD1309	2SB1099 2SD1590	2SB1431 2SD2162 2SA1833◎	
100 V, 10 A					2SA1842 2SC4812	2SA1717◎	2SA1720◎ 2SB1100 2SD1591	2SB1432 2SD2163	2SB897 2SD1210
100 V, 15 A									2SD1296
100 V, 25 A									2SD1297
300 V, 5 A							2SD1592		

◎: High speed darlington transistor, *: Internal zener diode between C-B

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